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SANDERS ASSOCIATES, INC.

SANDERS GRAPHIC 7

- Intelligent Refreshed Graphics Terminal
- Plug Compatible to Most Computers
- Complete System
- Remote/Local Operation
- One-Button Initialize

Sanders Graphic 7 is an intelligent, interactive, refreshed graphics terminal that comes complete with all necessary hardware and software. It features two microprocessors, standard interfaces to most host computers, simple one-button initialize, and can be used remotely or locally.

Designed to provide an EASY method for adding interactive graphics capability to any computer, the Sanders Graphic 7 eliminates the need for complex interface software and enables the user to concentrate on specific applications programs.

The basic system is comprised of a terminal controller, 21 inch CRT display, and input devices such as keyboard, lightpen, and trackball. A read-only-memory in the controller contains the Graphic Control Program (GCP) that handles communications between the terminal and host computer, controls the data entry devices, manages the display image refresh, and performs other tasks usually done in the host computer.

The Graphic 7 system, which features automatic self-test and diagnostics, contains an 8192 word, 16-bit RAM memory for refresh and control programs, expandable to 24K words. It has a one-button initialize and two operating modes: local and system. Although the system does not require program loading through the host computer, program loading is available to enhance the capabilities of the terminal. A full complement of general purpose instructions are available to the user in the display processor.

The firmware committed GCP permits intrinsic terminal operations to be transparent to the user and minimizes host computer involvement in display functions. It frees the system programmer from the task of supporting the graphics terminal and allows him to concentrate on his application software. Even this task is simplified considerably through the use of the optional Graphic Support Software (GSS) which allows application programs to be written in Fortran.

What does all this add up to? Simply this. The most versatile, highest quality refreshed graphics system on the market at remarkably low prices. Yet, it is an absolute model of simplicity to install and use.

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SPECIFICATIONS

DISPLAY PROCESSOR

General Purpose Microprocessor	
Word Length	16 bits
Byte Mode	8 bits
Instructions	400+
Registers	8
Memory	16 bits
ROM	4K
RAM	8–24K

INTERFACE OPTIONS

Parallel	16 bits – 500 Kwps
Serial	RS-232C – to 50 Kbps

GRAPHIC CONTROLLER

Parallel Microprocessor	16 bits
Display Instructions	40
Display Registers	13
General Purpose Registers	4
Refresh Rates	60, 40, 30 Hz

VECTOR/POSITION GENERATOR

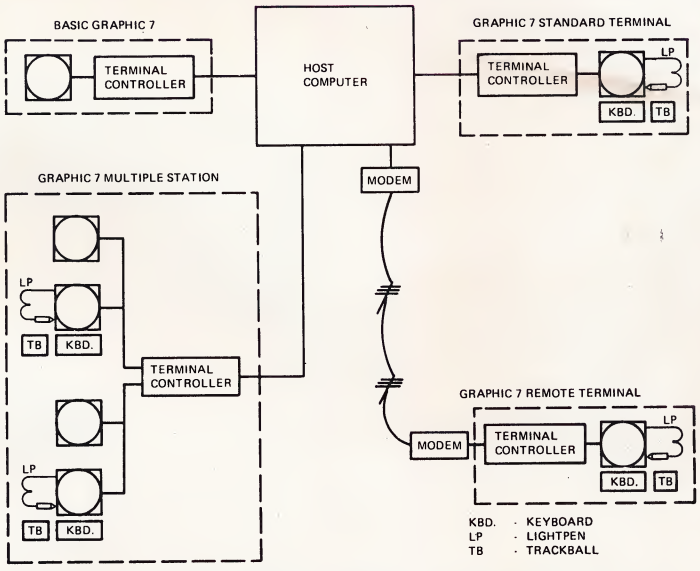
Addressable Locations	2048 x 2048
Viewing Area	1024 x 1024
Line Texture	4
Speeds	2

CHARACTER GENERATOR

Character Set (Std)	96 ASCII
User Defined (Opt)	32
Rotation	90° CCW
Sizes	4
Speeds	2
High Speed Character	2.4 μsec (typical) 3.6 μsec (with tab)

OUTPUT CHANNEL

Total Displays	4 (2X, 2Y, 4Z)
X, Y Channels	±5V
Z Channel	0 to +1.5V
Termination	75Ω
Brightness Levels	8



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